

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Chikara Uchida, et al.

APPLICATION NO.: To Be Assigned : Examiner: To Be Assigned

FILING DATE: Herewith : Group Art Unit: To Be Assigned

TITLE: Imidazopyridine Compounds as 5-HT₄ Receptor :
Modulators

Mail Stop Patent Application

Hon. Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 C.F.R. § 1.97 ET SEQ.

Applicant(s) herein make(s) available to the U.S. Patent and Trademark Office a copy of PTO-FB-A820 which lists the references cited by the applicant(s). Copies of two of the citations are enclosed. All other citations have already been submitted with U.S. Ser. No. 10/251,109.

The Examiner is requested to consider carefully the complete text of these references in connection with the examination of the above-identified application in accord with 37 C.F.R. § 1.104(a). It is believed the Examiner will concur with applicant's belief that the subject matter presently claimed is neither anticipated nor rendered obvious by the foregoing references.

It is requested that the references listed on the attached form PTO-FB-A820 be included in the "References Cited" portion of any patent issuing from this application (M.P.E.P. § 1302.12).

A prompt and favorable response is earnestly solicited.

Date:

July 10, 2003
Pfizer Inc.
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Respectfully submitted,

Martha G. Munchhof
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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	ATTY. DOCKET NO. PC9990B	SERIAL NO. To Be Assigned
	APPLICANT Chikara Uchida, et al.	
	FILING DATE Herewith	GROUP To Be Assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	US	5	1	3	7	8	9	3	08/11/92	Becker, et al.	514	293	
	US	5	2	1	9	8	5	0	06/15/93	Becker, et al.	514	214	
	US	5	4	3	4	1	6	1	07/18/95	Becker, et al.	514	300	
	US	5	5	9	1	7	4	9	01/07/97	Becker, et al.	514	300	
	US	5	6	0	4	2	3	9	02/18/97	Becker, et al.	514	300	
	US	5	9	6	8	9	6	5	10/19/99	Dinsmore, et al.	514	300	

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER									DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
	WO	9	2	1	5	5	9	3	09/17/92	International	C07D	519/00		
	WO	9	4	0	8	9	9	8	04/28/94	International	C07D	417/04		
	WO	9	6	0	5	1	6	6	02/22/96	International	C07C	211/35	X	
	WO	9	7	2	7	8	5	2	08/07/97	International	A61K	31/415		
	WO	9	7	3	8	6	6	5	10/23/97	International	A61K			
	WO	9	9	5	0	2	4	7	10/07/99	International	C07D	211/14		
	WO	9	9	5	0	2	6	4	10/07/99	International	C07D	401/14		X
	WO	0	1	0	5	7	6	3	01/25/01	International	C07D	211/00		
	WO	0	1	1	4	3	3	1	03/01/01	International	C07D	211/00		
	EP	0	2	4	3	9	5	9	4/29/87	Europe	C07D	265/30		
	EP	0	2	7	4	8	6	7	04/13/94	Europe	C07D	233/60		
	EP	0	5	0	4	6	7	9	09/23/92	Europe	C07D	519/00		
	EP	1	2	1	7	0	0	0	06/26/02	Europe	C07D	401/00		
	JP	Hei 1-	2	5	8	6	7	4	10/16/89	Japan	C07D	453/02	X	
	JP	2001-	6	8	7	7			01/12/01	Japan	H05B	33/14	X	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

			Dumuis, et al. "A 5HT Receptor in the Central Nervous System, Positively Coupled with Adenylate Cyclase, is Antagonized by ICS 205 930", Eur. Journal of Pharmacology 146, pp. 187-188 (1988)										
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(Use several sheets if necessary)			APPLICANT Chikara Uchida, et al.	
			FILING DATE Herewith	GROUP To Be Assigned
			Dumuis, et al., "The Gastrointestinal Prokinetic Benzamide Derivatives are Agonists at the Non-Classical 5-HT Receptor (5-HT ₄) Positively Coupled to Adenylate Cyclase in Neurons", <u>Naunyn-Schmiedeberg's Archives of Pharmacology</u> 340 , pp. 403-410 (1989)	
			Bockaert, et al., "The 5-HT ₄ Receptor: A Place in the Sun", <u>TiPs Reviews</u> 13 , pp. 141-145 (1992)	
			Ford, et al., "The 5-HT ₄ Receptor", <u>Medicinal Research Reviews</u> 13 (6), pp. 633-662 (1993)	
			Gullikson, et al., "Gastrointestinal Motility Responses to the S and R Enantiomers of Zacopride, a 5-HT ₄ Agonist and 5-HT ₃ Antagonist", <u>Drug Development Research</u> 26 , pp. 405-417 (1992)	
			Eglen, et al. "Central 5-HT ₄ Receptors", <u>TiPs Review</u> 16 , pp. 391-398 (1995)	
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			Kaumann, et al., "A 5-HT ₄ -like Receptor in Human Right Atrium", <u>Naunyn-Schmiedeberg's Archives of Pharmacology</u> 344 , pp. 150-159 (1991)	
			Mutterer, et al., "Halogenated pyridines v. fluorinated and brominated pyridine compounds", <u>Helv. Chim. Acta</u> 59 Fasc. 1 (23-24), pp. 229-235 (Translation from German article) (1976)	
			Barlow, et al., "Diels-Alder Reactions of trichloro-1,2,4-triazine: Intramolecular Additions with 1,5 and 1,6 Dienes", <u>J. Chem. Soc. Perkin Trans. 1</u> , pp. 519-524 (1995)	
			Lantos, et al., "Nove Cage Compunds from Inter-intra-molecular Diels-Alder Reactions of 1,2,4-Triazines with Cyclo-octa-15-diene", <u>J. Chem. Soc. Chem. Commun.</u> , pp. 1482 (1988)	
			T.W. Greene, et al., "Protection for the hydroxyl Group, Including 1,2- and 1,3-Diols", <u>Protective Groups in Organic Synthesis</u> , 2 nd Edition, pp. 10-142 (1991)	
			T.W. Greene, et al., "Protection for the Amino Group", <u>Protective Groups in Organic Synthesis</u> , 2 nd Edition, pp. 309-405 (1991)	
			T. W. Greene, et al., "Protection for the Carboxyl Group", <u>Protective groups on Organic Synthesis</u> , 3 rd Edition, pp. 369-377	
			Feibush, et al., "Chiral Separation of Heterocyclic Drugs by HPLC: Solute-Stationary Phase Base-Pair Interactions", <u>J. Am. Chem. Soc.</u> 108 , pp. 3310-3318 (1986)	
			Baxter, et al., "5-Hydroxytryptamine ₄ Receptors Mediate Relaxation of the Rat Oesophageal Tunica Muscularis Mucosae", <u>Naunyn-Schmiedeberg's Arch. Pharm.</u> 343 , pp. 439-446 (1991)	
			Mine, et al., "Comparision of Effect of Mosapride Citrate and Existing 5-HT ₄ Receptor", <u>JPET</u> 283 (3), pp. 1000-1008 (1997)	
			Reeves, et al, "Investigation into the 5-hydroxytryptamine Receptor Mediating Smooth Muscle Relaxation in the Rat Oesophagus", <u>Br. J. Pharmacol.</u> 104 , pp. 1067-1072 (1991)	
			Coldwell, et al., "The Synthesis, and Dopamine D ₂ and Serotonin 5-HT ₃ Receptor Affinity of 3-Aza Analogues (Pyridyl) of 4-Amino-5-chloro-2-methoxybenzamides", <u>Bioorg. & Med. Chemistry Letters</u> 5 (1), pp. 39-42 (1995)	
			Itoh, et al., "Synthesis and Pharmacological Evaluation of Carboxamide Derivatives as Selective Serotonergic 5-HT ₄ Receptor Agonists", <u>Fur. J. Med. Chem.</u> 34 , pp. 329-341 (1999)	
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			Prugh, et al., "A Simple Method of Protecting a Secondary Amine with tert Butyloxycarbonyl (BOC) in the Presence of a Primary	

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		ATTY. DOCKET NO. PC9990B		SERIAL NO. To Be	
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		FILING DATE Herewith		GROUP To Be	
			Amien", <u>Synthetic Communications</u> 22(16), pp. 2357-2360 (1992)		
			Kampe, et al., "A Convenient Synthesis of 1-Chloro-2-alkanones", <u>Synthesis</u> 2, pp. 188-190 (1987)		
			Blanco, et al., "Halogenation of Enol Silyl Ethers. Synthesis of Various Types of α -Bromocarbonyl Compounds", <u>Synthesis</u> , pp. 194-196 (1976)		
			Feibush, et al., "Chiral Separation of Heterocyclic Drugs by HPLC:Solute-Stationary Phase Base-Pair Interactions", <u>J. Am. Chem. Soc.</u> 108, pp. 3310-3318 (1986)		
			Lopez-Rodriguez, et al., "Benimidazole Derivatives. Part1: Synthesis and Structure-Activity Relationships of New Benimidazole-4-carboxamides and Carboxylates as Potent and Selective 5-HT ₄ Receptor Antagonists", <u>Bioorg. & Med. Chemistry</u> 7, pp. 2271-2281 (1999)		
			Klein, et al., "Design of a New Class of Orally Active Fibrinogen Receptor Antagonists", <u>J. Med. Chem.</u> 41, pp. 2492-2502 (1998)		
			Maisano, et al., "Cisapride and Dexamethasone in the Prevention of Delayed Emesis after Cisplatin Administration", <u>Support Care Center</u> 9, pp. 61-64 (2000)		
EXAMINER			DATE CONSIDERED		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					

Conforms with FORM PTO-FB-A820

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